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Canada Centre
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Centre canadien
de la technologie
des minéraux
et de l'énergie

ISO/TC 69

CANADIAN DELEGATION REPORT ON ISO/TC 69/SC 6/WG 1 AND WG 4
MEETINGS HELD IN LONDON, UK. 1987-05-18/21

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Le Centre canadien de la technologie des minéraux et de l'énergie (CANMET) est un organisme fédéral qui a pour mandat de promouvoir la technologie des minéraux et de l'énergie au Canada.

MICROMEDIA

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CANADIAN DELEGATION REPORT ON ISO/TC 69/SC 6/WG 1 AND WG 4
MEETINGS HELD IN LONDON, UK.
1987-05-18/21

by

R. Sutarno*

This report covers the meeting of ISO/TC 69/SC 6/WG 1 and WG 4, held at the British Standards Institution, London, UK.

This meeting is one of the series of meetings held by these working groups in the course of developing standards for the determination of various aspects of accuracy of test methods.

Keywords: ISO, precision, trueness, standard, test, statistics.

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(ii)

COMPTE RENDU DE LA DÉLÉGATION CANADIENNE AUX RÉUNIONS DE
ISO/TC 69/SC 6/WG 1 ET WG 4
TENUES À LONDRES, R.-U.
DU 18 AU 21 MAI 1987

par

R. Sutarno*

Le présent rapport est un compte rendu de la réunion de ISO/TC 69/SC 6/WG 1 ET WG 4, qui a eu lieu au British Standards Institution, Londres, R.-U.

Cette réunion fait partie d'une série de réunions tenues par ces groupes de travail dans le cadre de l'élaboration de normes pour la détermination de la précision des méthodes d'essai sous divers aspects.

Mots-clés: ISO, précision, fidélité, norme, essai, statistiques.

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ISO/TC 69/SC 6/WG 4
STATISTICAL ASPECTS OF REFERENCE MATERIALS

3rd. Meeting

Place : British Standards Institution, London, UK.
Date : 1987-05-18
Present : R. Sutarno (Canada, Convener), E. Colinet (EEC),
W.H. Oakland, F. W. Michell, J. H. Mallaby (UK),
K. Graebig (Secretary), Peter T. Wilrich (Germany),
K. Zedeler (Denmark) and T. Miyazu (Japan).

The main purpose of this meeting was to discuss the first draft of the document on the application of certified reference materials for checking the accuracy of measurement procedures. This document was written for incorporation into ISO 5725 Part 4. It was written by Dr. E. Colinet and has been previously circulated for comment to ISO/TC 69/SC 6/WG 4 members as well as to REMCO as document ISO/REMCO 146.

Convener's report of developments since last meeting.

The minutes of the last meeting have been distributed to the members by Dr. Petrick of DIN, who was acting as the secretary for WG 4. Items requiring action were:

(1). The comments received from REMCO's members on the draft ISO Guide 33 are concerned with the problem of inconsistency between TC 69 terminology and that of OIML (l'Organisation Internationale de Metrologie Legale). Being part of TC 69, the working group decided to comply with TC 69 terminology. Mr. Oakland has informed Dr. Parkany of Central Secretariat regarding this decision.

(2). The working group decided also to transform ISO Guide 33 into a section of ISO 5725 and Dr. Colinet volunteered to redraft it into a standard form. The new draft has been circulated to the members and will be discussed at this meeting. REMCO secretariat has been kept informed on the progress of this work.

(3). ISO Guide 33

The sixth draft of this guide was prepared and submitted to REMCO (as well as to members of WG 4) in time for the REMCO 12th. meeting last November 1986. The only objection received from REMCO members was the use of expression "allowable" bias. The objection was not on the "technical" ground, but rather on the use of the expression "allowable". To satisfy this object-

ion, we have changed the term "allowable bias" into "adjustment factor" which will be introduced by the experimenter. The magnitude of which depends on the practical circumstances. I hope this will satisfy REMCO. Other comments were also received from Prof. Wilrich.

The "seventh" draft of the document has been prepared and submitted to REMCO. This document has been distributed as document ISO/REMCO 147. No other comment was received at the meeting, so this work is considered complete.

(4). Transformation of ISO Guide 33 into a section of ISO 5725

As agreed at the last meeting, ISO Guide 33 will be rewritten in the form of a standard and will be incorporated into ISO 5725. This is a very drastic change to ISO 5725 transforming it from a document on precision to a document on "accuracy".

On behalf of all of WG 4 the convener thanked Dr. Colinet for making the first attempt in drafting this section. The draft of this document has been circulated to the members.

Adaptation of ISO Guide 33 to ISO 5725.

In its present form, ISO Guide 33 is not suitable for republication as a standard. It must be rewritten in a more suitable form i.e. in a more imperative tone. The new document is limited to the uses of reference materials for assessment of measurement methods with known precision (ISO/REMCO 146).

The document was discussed in detail, clause by clause. Major changes were proposed. A new draft was written for circulation to WG members for comment. UK proposed to restructure the document by tabling Document ISO/TC 69/SC 6/WG 1 N 31. Unfortunately this document was tabled at WG 1 meeting. Although it was too late for discussion, the consensus of the WG 4 members present at the WG 1 meeting was that the two documents should be combined by the convener together with other comments expected from WG 4 members, and a new draft will be circulated in time for the next meeting.

The meeting was adjourned at 6 pm and the future meeting will be held at the same time and place as the ISO/TC 69/SC 6/WG 1 meeting.

ISO/TC 69/SC 6/WG 1
REVISION OF ISO 5725

4th. Meeting

Place : British Standards Institution, London, UK.
Date : 1987-05-19/21
Present : R. Sutarno (Canada), E. Stene, K. Zedeler (Denmark),
W.H. Oakland (Convener), K.N. Clemetson, Roger Sym,
W. D. Pocklington (ISO/TC 34), N. A. Smart, K. Graebig,
Peter T. Wilrich (Germany), G.V. Koch (USA),
K. Nishina and T. Miyazu (Japan).

The whole meeting was devoted to the discussion of the draft for long term revision of ISO 5725 "Determination of accuracy (trueness and precision) of a test method".

The documents discussed were:

- Part 1: General principles and definitions.
- Part 2: The basic methods for the determination of two extreme precision measures of a test method.
- Part 3: The basic method for the determination of intermediate precision measure for a test method.
- Part 4: The basic method for the determination of trueness of a test method.
- Part 5: Alternative methods for the determination of precision of a test method.
- Part 6: Application of trueness and precision measures.

With the exception of Part 5, the document was discussed clause by clause with the following decisions:

(1). A new draft, taking into account all comments made at the meeting and combining all the above documents, will be made ready for distribution to the WG members in time for the next meeting. The redrafting of these documents is assigned to the following members:

- Part 1: Dr. R. Sym, UK.
- Part 2: Dr. N. A. Smart, UK.
- Part 3: Dr. T. Miyazu, Japan.
- Part 4: Dr. R. Sutarno, Canada (as convener of WG 4).
- Part 6: Various members; each redraft a section.

(2). The content of Part 5 is still to be determined. Documents ISO/TC 102/TCR 4 "Procedure for statistical evaluation of analytical data resulting from international tests" and TCR 5 "Working group operating procedure", will be considered as materials for Part 5. Both are TC 102 documents.

This meeting has been one of the most productive meetings of ISO/TC 69/SC 6/WG's. The much needed standard on the determination of accuracy of a test method is on track. This standard is needed by other ISO TC's such as TC 102, TC 17, TC 155, TC 183 TC 28, and TC 34 to name a few, because all these TC's are involved in the development of standards for test methods. In the future, all ISO standards, as well as those of BSI and DIN, on measurement process will be required to have an "accuracy statement". This statement must have consistent meaning.

The interest of Canada in this work is in conjunction with Canada's interest in other product TC's. These TC's require standards and guides produced by both TC 69 and REMCO to function properly. Therefore it is recommended that Canada, as one of the world's main producers and traders of bulk materials (ores, concentrates, wheat etc.), continue to support the work of these committees. Attendance at the future meetings by Canadian representative is imperative.

Items requiring immediate action (all by R. Sutarno):

- (1). To redraft document on "The basic method for the determination of trueness of a test method".
- (2). To send a copy of documents ISO/TC 102/TCR 4 & TCR 5 to the Secretariat of ISO/TC 69/SC 6/WG 1.

Future meeting.

ISO/TC 69/SC 6 including WG 1 and WG 4, plan to meet in Atlanta, Ga, in September 1987.



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)
Technical Committee 69 - Application of statistical methods
Subcommittee 6 - Measurement methods and results

Working Group 4 - Statistical aspects of reference materials

(Secr.: DIN, Germany, F.R.)

MINUTES OF THE MEETING OF ISO/TC69/SC6/WG4 "STATISTICAL ASPECTS OF REFERENCE MATERIALS" (JOINT GROUP WITH REMCO) HELD ON 18 MAY IN LONDON (BSI)

PRESENT

Dr R Sutarno - Convenor - Canada

Dr E Colinet - EEC (Belgium)

Mr J H J Mallaby - UK (BSI)

Dr T Miyazu - Japan

Mr W H Oakland - UK

Prof. P-TH Wilrich - Germany

K Zedeler - Denmark

Mr K Graebig - Secretary - Germany

1. CONVENORS REPORT ON DEVELOPMENTS SINCE LAST MEETING IN COPENHAGEN IN JUNE 1986

Dr Sutarno reported:

The minutes of the last meeting has been distributed to the member by Dr Petrick. Items to be acted were:

- a) The comments received from REMCO's members on the draft ISO Guide 33 are concerned with problems of inconsistency between TC69 terminology and tht of OIML. Being part of TC69 the working group decided to comply with TC69 terminology. Mr Oakland has informed Dr Parkany regarding this decision.
- b) The working group decided also to transform ISO Guide 33 into a section of ISO 5725 and Dr Colinet agreed to volunteer to redraft it into a standard form. The new draft has been circulated to the member and will be discussed at this meeting. Mr Oakland has informed Dr Parkany, as Secretary of REMCO, on this matter as a goodwill gesture.

2. PROGRESS REPORT ON ISO GUIDE 33

Dr Sutarno reported:

The sixth draft of this guide has been prepared and submitted to REMCO (as well as to members of WG4) in time for the REMCO 12th. meeting last November 1986. The only objection received from REMCO members was the use of expression "allowable" bias. The objection was not on the "technical" ground, but rather on the use of the expression "allowable". To satisfy this objection, the term "allowable bias" has been changed into "adjustment factor" which will be introduced by the experimenter and the magnitude of which depends on the practical circumstances. The Convenor hopes this will satisfy REMCO. Other comments were also received from Prof. Wilrich.

The "seventh" draft of the document has been prepared and submitted to REMCO. It has been distributed as Document ISO/REMCO 147.

3. DISCUSSION ON THE DRAFT DOCUMENT ENTITLED:

"Assessment of the trueness of a test method of known precision by the use of certified reference materials"

The document has been discussed in detail and a revised document will be submitted to WG1 and WG4 of ISO/TC69/SC6 for comments. The Convenor will incorporate the comments and redraft it for distribution in time for the next meeting.

4. OTHER BUSINESS

Concerning a possible cooperation with REMCO it was decided not to take any action for the time being but to await the outcome of the meeting of ISO/TC69/SC6/WG1.

5. FUTURE WORK

It was proposed that WG4 undertake work on the following:

- a) Use of reference material for calibration purposes
- b) Use of reference material where homogeneity cannot be assumed.

6. DATE AND PLACE OF NEXT MEETING

The next meeting of WG4 will be held in connection with WG1.